

AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
29 West 39th Street
New York City

AMS 3280

Issued 12-1-42

Revised

F E L T, H A I R

CANCELLED

1. ACKNOWLEDGMENT: A vendor must mention this specification number in all quotations and when acknowledging purchase orders.
2. APPLICATION: This material shall be suitable for sound deadening, soft pads, and for mechanical purposes where abrasion and wear are not important factors.
3. COMPOSITION: (a) The material shall be made of cattle hair, goat hair, or horse hair.

(b) Materials used in the manufacture of this felt shall be thoroughly washed, sterilized, and free from grease or other foreign matter.

(c) Fiber content of the felt shall be 100% hair.

4. REQUIREMENTS: (a) This material shall be made by the punched or needle loom process with fabric insertions securely anchored to the back of the felt.

(b) The reinforcement contained in the 1/8", 3/16" and 1/4" thicknesses shall be a 5.50 cotton sheeting. No reinforcement is permitted for thicknesses greater than 1/4".

(c) The weight requirements for various thicknesses are as follows:

WEIGHT OF FELT - LBS PER SQ. YD.

Nominal Thickness, Inch

Thickness	Min	Max	Thickness	Min	Max
1/8	1.05	1.15	3/8	2.40	2.70
3/16	1.50	1.70	1/2	2.90	3.20
1/4	1.90	2.10	3/4	4.15	4.55
5/16	2.05	2.25	1	5.55	5.95

(d) The material shall be flameproofed so that no flame shall be propagated from its surface when a specimen not less than six inches square is held for 30 seconds over the tip of a blue Bunsen flame adjusted to a height of 1-3/4 inches. This test shall be conducted under a hood with the fan idle to provide for a minimum movement of air currents.

5. QUALITY: (a) All felt shall be uniform in thickness and shall be free from tears, holes, lumps, wrinkles, foreign matter, or any other imperfections affecting appearance and/or serviceability.

(b) The finished felt shall be reasonably smooth and evenly felted.

Documents

6. TOLERANCES: The permissible thickness tolerance shall be as follows:

NOMINAL THICKNESS IN INCHES

<u>Thickness</u>	<u>Minimum</u>	<u>Maximum</u>	<u>Thickness</u>	<u>Minimum</u>	<u>Maximum</u>
1/8	.100	.150	3/8	.333	.416
3/16	.158	.217	1/2	.450	.550
1/4	.217	.283	3/4	.665	.830
5/16	.275	.350	1	.900	1.100

7. APPROVAL: A manufacturer shall not supply material to this specification until samples are approved by the purchaser, and after approval the constituents and/or methods of manufacture shall not be changed without written permission from the purchaser. Results of the tests of incoming shipments shall be as good as those on the approved samples.
8. REJECTIONS: Material not conforming to this specification or modifications specified on the drawing or the purchase order, is subject to rejection. If samples for verification are desired by the vendor, they must be claimed within three (3) weeks. Rejected material or parts will be held for a reasonable time, at the vendor's risk, awaiting shipping instructions for the return of same for credit or replacement, as specified. Vendor shall pay all transportation charges.

NOTE: SIMILAR SPECIFICATIONS: Army Air Forces 16119 is listed for information only and is not to be construed as an acceptable alternate unless all the requirements of this AMS are met.